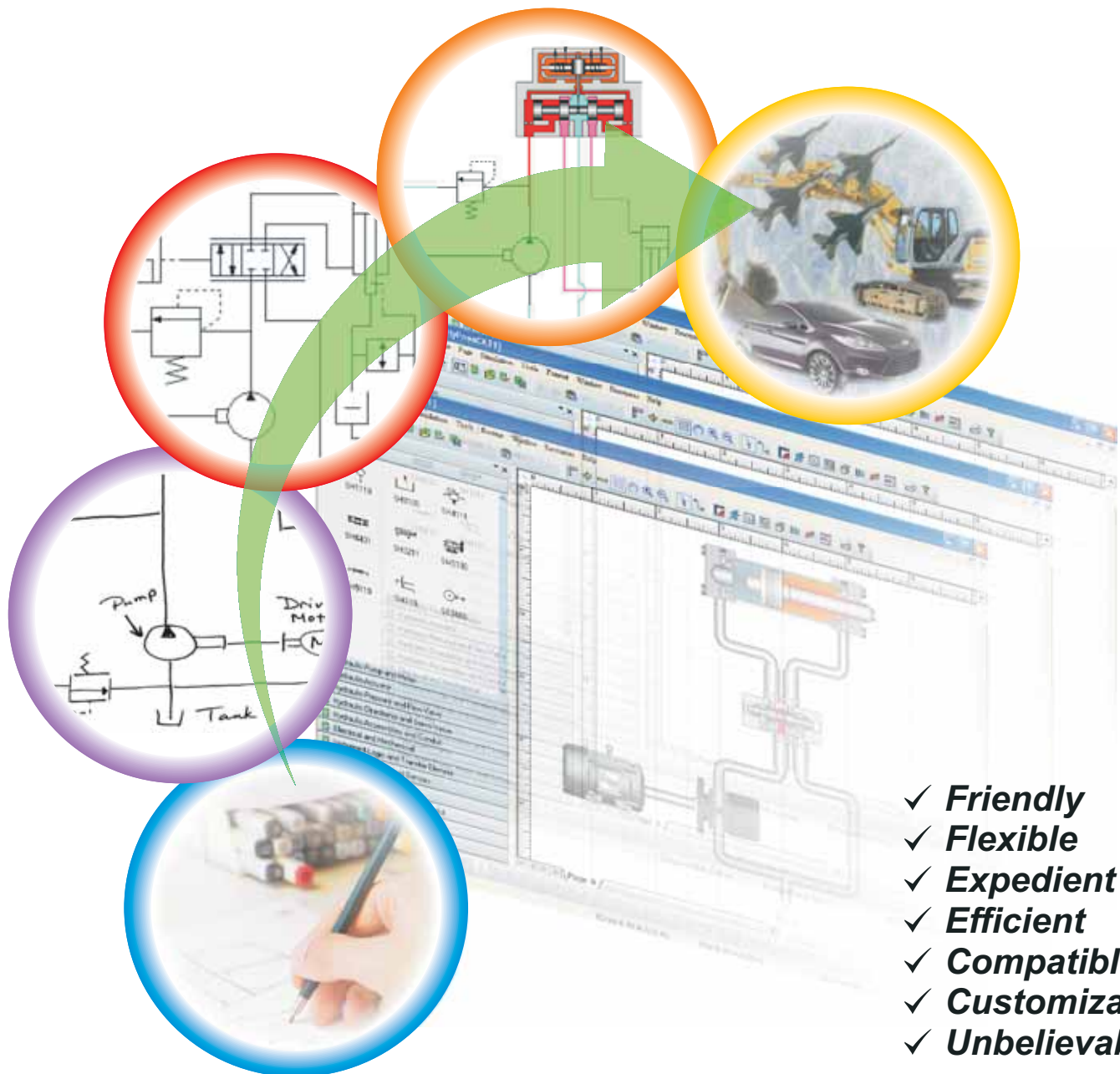




**Schematic Design
and Editing Tool for
the Practical Engineer**



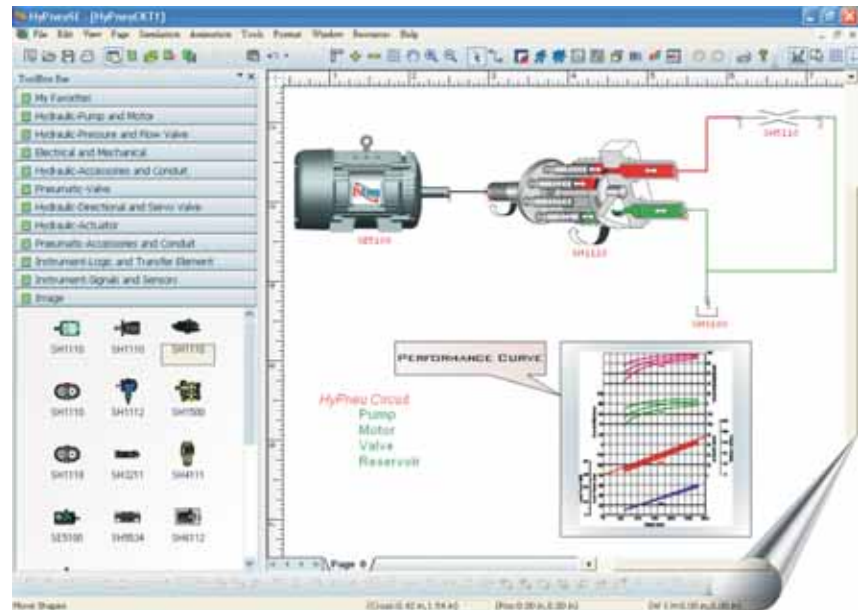
- ✓ **Friendly**
- ✓ **Flexible**
- ✓ **Expedient**
- ✓ **Efficient**
- ✓ **Compatible**
- ✓ **Customizable**
- ✓ **Unbelievable!**



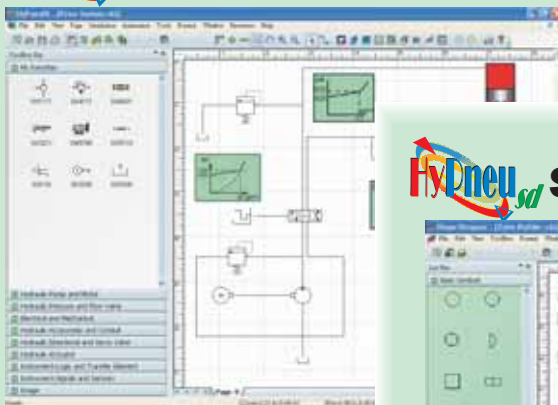
HyPneu's Schematic Editor

HyPneu SE (Schematic Editor) is a circuit drawing program that provides unique flexibility and ease of use to the design engineer. This is truly an efficient tool for transferring design concepts from the computer to the shop floor.

The HyPneu SD (Shape Designer) is included as part of the HyPneu SE package. This useful utility is invaluable in developing unique shape designs for use in any circuit.



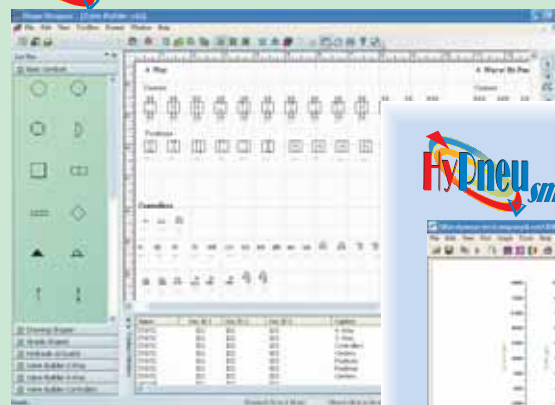
HyPneu_{se} Schematic Editor



Create a circuit design

The HyPneu SE/SD software is really one of two integrated programs designed to work together to achieve optimum results. HyPneu SE and SD were developed to work together as a stand alone product so that those who have no need to run simulations can take advantage of these development tools create professional graphical representations of their circuit.

HyPneu_{sd} Shape Designer



Develop circuit shapes

HyPneu_{sm} Simulation Manager



Run Simulations



The HyPneu SE Tools

Toolbox Bar

The HyPneu SE Toolbox Bar contains a library of all kinds of ready-to-use shapes including more than 500 ISO symbols and HyPneu model icons. This Toolbox Bar can also be customized and can contain countless user created shapes.



Toolbars

Multiple toolbars are available for a variety of actions such as setting snapping, ruler, and view options; connecting shapes; formatting; creating and editing shapes; and aligning objects.

Connect shapes with the **Link Toolbar**



View and edit the schematic with the **View Toolbar**



Organize and structure a circuit with the **Format Toolbar**



Use multiple drawing commands with the **Drawing Toolbar**



Edit Shapes with the **Operation Toolbar**



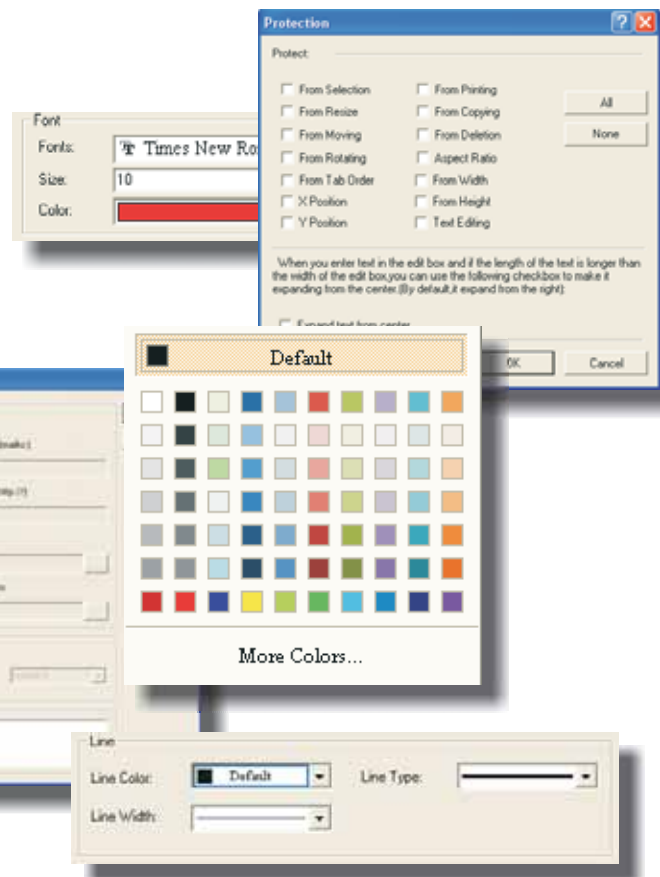
Animate your circuit with the **Animation Toolbar**



Shape Properties

Many HyPneu SE shapes can be visually and functionally enhanced by adjusting the shape properties.

Property	Behavior
Text	Performs text changes like name and caption. Text Style can be edited.
Protection	Allows the shape to be protected from multiple actions such as printing.
Line	Enables changes to the line color and width of the shape.
Fill	Permits the use of pattern, gradient, and the texture to the shape.
Shadow	Apply shadow to the shape.
Events	Create an action for clicking once in run mode.
Bullets	Generate a list of shapes.
Layer	Select or create a new layer for each shape.

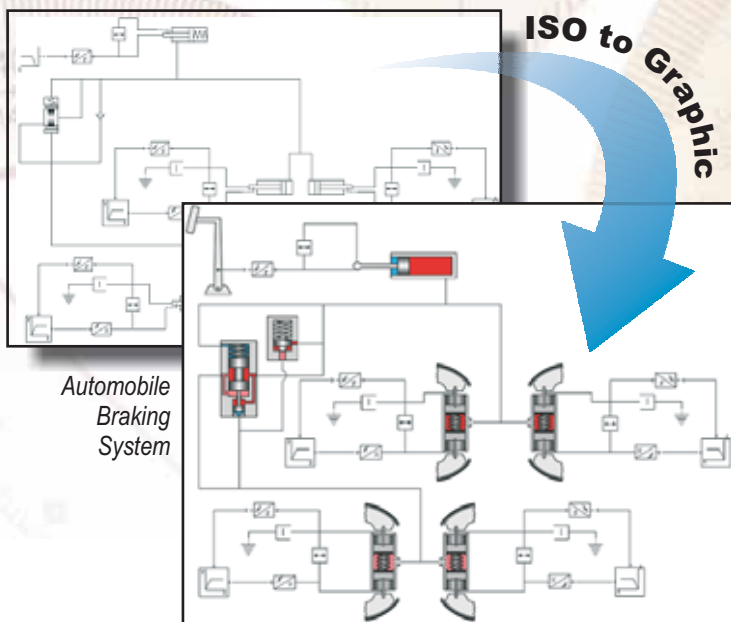




Drawing Utilities

Image replacement

For graphical presentation purposes, a more realistic representation of component symbols or additional graphics to illustrate critical system operation concepts may be required. Many kinds of graphic files can be included on a circuit's page. For example, you can include available performance curve characteristics of a pump that you would like to view with the circuit file. Imported photos of components, cross-sections, or 3-D images are also easy to incorporate in the final circuit design.



HyPneu-SE's Unique Features

Visual Customization

- Theme and color customization
- Customize default file properties and user data
- Show/Hide horizontal and vertical rulers
- Auto Scroll
- Show/ Hide Gridline
- Snap to Grid
- View a circuit in full screen mode
- Single and multiple page support
- Standard Print, Print Preview, and Page Setup

Shape Manipulation

- Add and Remove Ports
- Group and ungroup shapes
- Lock and unlock shapes
- Combine a selection of shapes to create Subgraph Shapes
- Precisely size and position shapes
- Move, Resize, and Rotate shapes using shape handles
- Glue a new shape to an existing shape's vector and/or handle
- Move and manipulate shapes without losing connection

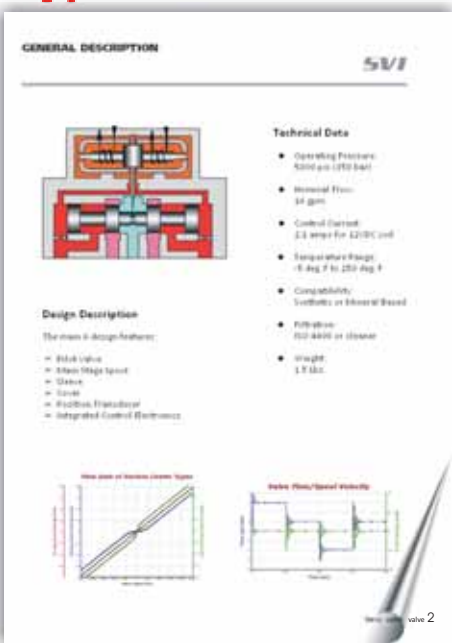
Drawing Utilities

- Utilize CAD Dimensions
- Line and Curve Connect
- Multiple ways to add text to the circuit
- Nudge/Panning movements
- Space, Size, Order, and Alignment Layout
- Use and apply many layers
- Drag and drop items into the circuit
- Table Creator

Compatibility

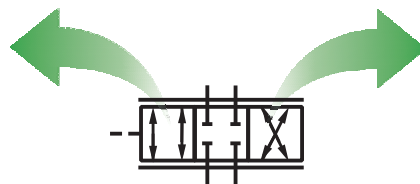
- Clipboard Support
- Export to .bmp, .jpg, .dib, & .emf
- Drag/Drop OLE Objects
- Multiple loading file formats

Hyperlink to External Sources



Include one-click hyperlinks to other destinations, such as digital component catalogs, manufacturer websites, etc.

Integrate component data in the **Component Manager** database structure provided with HyPneu SE.



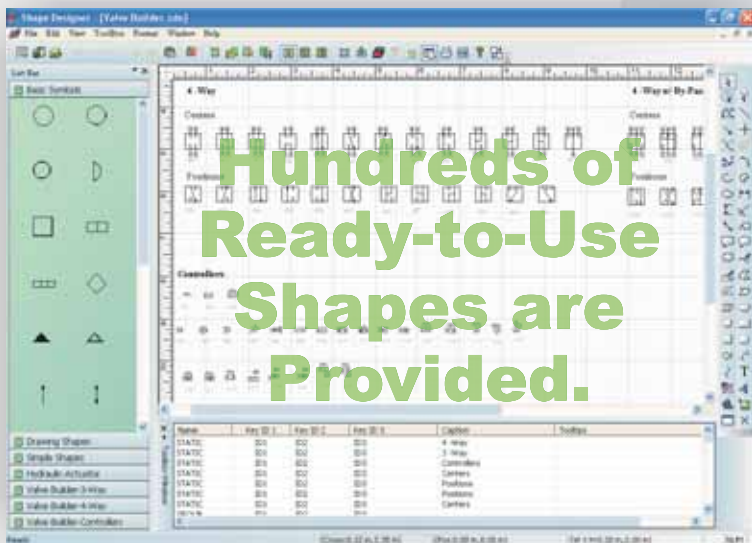
Component Manager



The **Component Manager** is capable of storing design parameters in electronic format from multiple sources such as analytical, manufacturer, and test data. This database includes a fluid property library and accommodates conventional units such as US, English, SI, Metric, etc.



HyPneu's Shape Designer



Hundreds of Ready-to-Use Shapes are Provided.

The Toolbox Bar makes available hundreds of shapes including over 500 ISO symbol and HyPneu model icon shapes in the following categories:

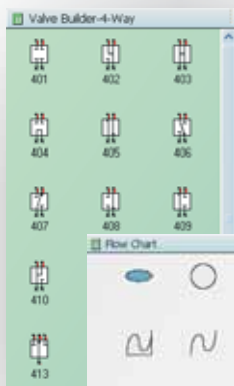
- Hydraulic shapes
- Pneumatic shapes
- Mechanical shapes
- Instrument shapes
- Control shapes
- Electric shapes
- Mock shapes
- Image shapes
- and more

In addition, hundreds of additional shapes are provided for circuit enhancement and clarification.

Realizing that HyPneu SE could not possibly provide all the shapes necessary to please all users, the software developers provide a flexible tool for users to create their own shapes. With the provided HyPneu SD (Shape Designer) utility, the user can use the available building blocks, or start completely from scratch, to create and save shapes specifically for their application.



Extensive Drawing Tools



Valve Builder



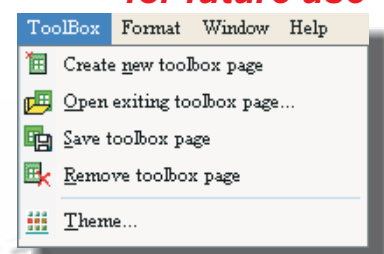
Preformed Flow Chart Shapes



Image Shapes



Save shapes for future use



The HyPneu SE Package

The HyPneu SE Installation CD contains

- HyPneu SE and HyPneu SD Software
- User's Manual in PDF format

System Requirements

- Windows 2000, XP, or higher
- CD-ROM drive for installation
- 128 megabytes of RAM
- 60 megabytes of available hard disk space
- Microsoft compatible mouse
- Standard high resolution monitor

Extended Features

Pack and Go

Extract the schematic data from your circuit and zip into a compact file for importing/exporting between computers and for archiving files.

Bill of Materials

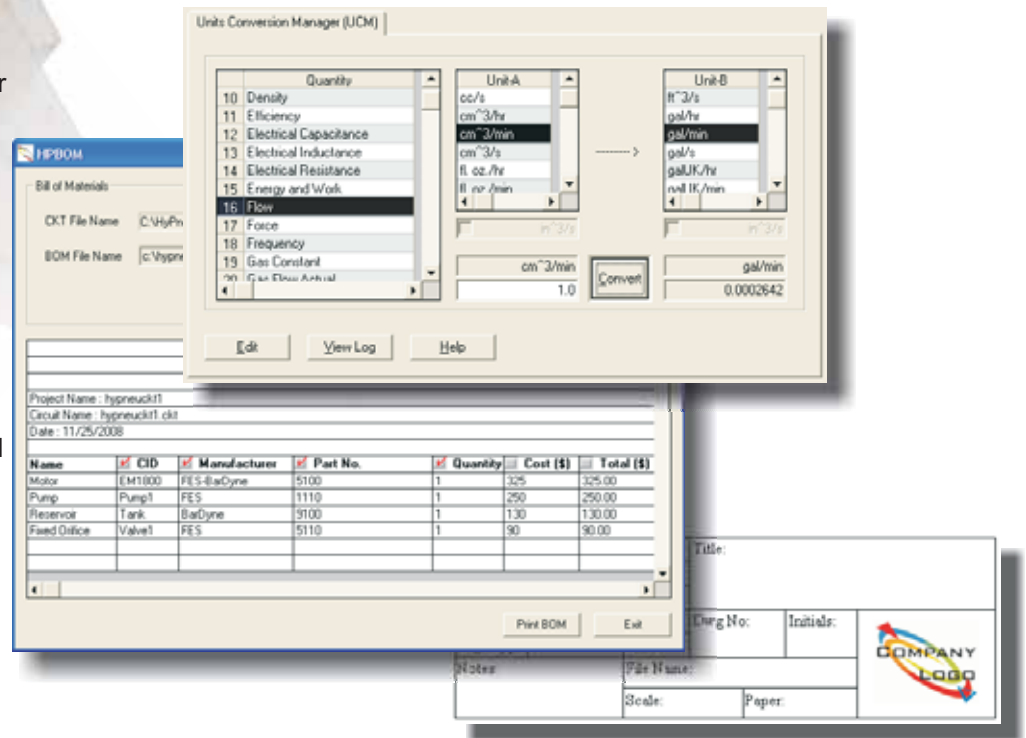
Easily create a detailed Bill of Materials of the components contained in your circuits.

Units Conversion

HyPneu offers a comprehensive and friendly units conversion system for any engineering application.

Title Block

Include a personalized title block area on any circuit to provide vital information about the drawing.



Resources at your Fingertips



Why clutter your workspace with clunky resource books when all that you need can be just a touch away? HyPneu SE has these handy resources right in the menu bar for quick access.

Fluid Power ISO Symbols



Fluid Power Glossary



Fluid Power Equations



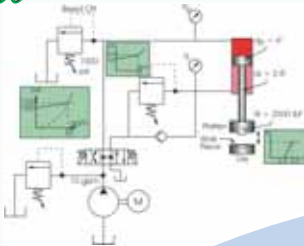
Fluid Power Test Standards



Works with HyPneu's Simulation Manager



Draw a schematic with HyPneu SE Tools



HyPneu SM is the world's leading virtual laboratory for fluid power and motion control design and simulation. Using HyPneu SM you can run numerous types of simulations to

- Design Components
- Analyze Dynamic and Steady State Performance
- Perform Critical Operation Analysis
- Run Pneumatic System Analysis
- Conduct Thermal Analysis
- Execute Frequency Response and Power Analysis
- Evaluate Contamination Sensitivity
- Assess Service Reliability

Specify from which component you want plotting data



Assign component data to the schematic shapes



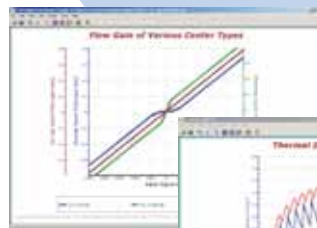
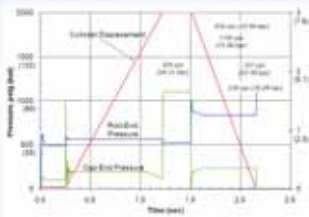
Specify type of simulation, integration method, and simulation timing



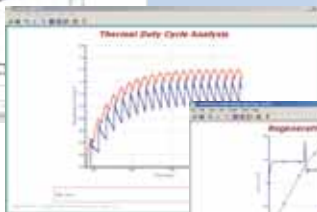
Run the simulation



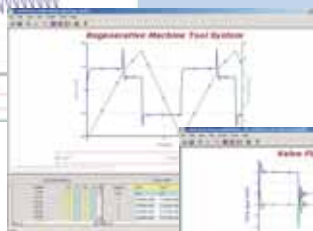
View the simulation results



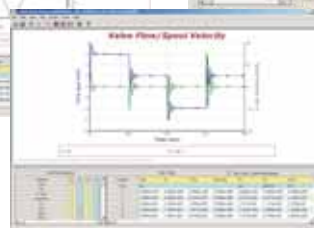
Static



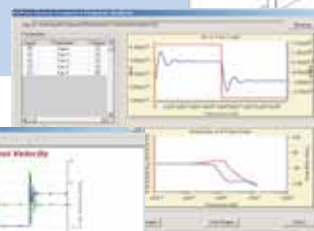
Thermal



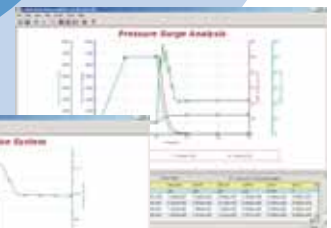
Process



Dynamic



Frequency



Troubleshooting

HyPneu SM is a separate program available from BarDyne, Inc. or your local HyPneu agent.

Extended Services from BarDyne, Inc.

Consulting

Feeling over your head? Let us help. We've provided invaluable assistance to many of today's most important companies in the areas of system analysis, system diagnosis, component selection, and model development. Let us help you with your more difficult challenges.

Design Integrity Verification

Have you developed a hydraulic or pneumatic component or system? We can run real life tests to evaluate the design integrity for service assurance. Our extensive laboratory of hydraulic and pneumatic testing equipment is incomparable in the industry.

Technology Transfer

BarDyne offers a wide variety of seminars that can be specifically designed to meet the needs of any company. These inhouse seminars can enhance the knowledge that your company's employees already have.

Publications

No other software on the market today can provide the technical support that HyPneu can provide. This technical expertise is demonstrated in the Computerized Fluid Power Series of books published only by BarDyne, Inc.

These books are a valuable resource to engineers all over the world, whether they are in industrial or academic environments.



HyPneu's Foundation

Qualified Personnel

The software developers are among a team of individuals that include two Ph.D.'s and a total of over 120 years of technical and programming experience in the power and motion control industry.

A Circle of Knowledge

Among our many resources is a valuable research archive that extends over 60 years, a vast variety of technical advisors in the industry, and an intimate understanding of standard engineering practices. This knowledge base provides the foundation for the HyPneu software and the numerous books published by BarDyne.

Testing Laboratory

We are in our 6th decade of performing component and system assessment tests for companies worldwide. This unique background is unmatched in the industry.

Customer Base

Our vast worldwide customer base includes industries from all sectors of private business, government, and educational institutions.



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